

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/502,085A  
Source: PCT  
Date Processed by STIC: 7-7-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/502,085A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics  
Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2 ☐ Invalid Line Length      The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3 ☐ Misaligned Amino  
Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4 ☐ Non-ASCII      The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5 ☐ Variable Length      Sequence(s)        contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6 ☐ PatentIn 2.0  
"bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)       . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7 ☐ Skipped Sequences  
(OLD RULES)      Sequence(s)        missing. If intentional, please insert the following lines for **each** skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8 ☐ Skipped Sequences  
(NEW RULES)      Sequence(s)        missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
  
- 9 ☐ Use of n's or Xaa's  
(NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10 ☐ Invalid <213>  
Response      Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11 ☒ Use of <220>      Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12 ☐ PatentIn 2.0  
"bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13 ☐ Misuse of n/Xaa      "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003

**BEST AVAILABLE COPY**



PCT

## RAW SEQUENCE LISTING

DATE: 07/07/2005

PATENT APPLICATION: US/10/502,085A

TIME: 13:46:34

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

3 <110> APPLICANT: BIOMIRA INC. et al.  
 5 <120> TITLE OF INVENTION: IMMUNOSTIMULATORY, COVALENTLY LIPIDATED OIGONUCLEOTIDES  
 7 <130> FILE REFERENCE: JIANG=4A PCT  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/502,085A  
 C--> 10 <141> CURRENT FILING DATE: 2004-07-22  
 12 <150> PRIOR APPLICATION NUMBER: 60/353,195  
 13 <151> PRIOR FILING DATE: 2002-02-04  
 15 <160> NUMBER OF SEQ ID NOS: 12  
 17 <170> SOFTWARE: PatentIn version 3.3  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 10  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: 128H described in Cheng et al. USP 5,646,126  
 27 <400> SEQUENCE: 1  
 28 cacacgtgtg  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 25  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Artificial Sequence  
 36 <220> FEATURE:  
 37 <223> OTHER INFORMATION: Synthesized peptide shown in Fig. 17 BP1-148  
 39 <400> SEQUENCE: 2  
 41 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg  
 42 1 5 10 15  
 45 Pro Ala Pro Gly Ser Thr Ala Pro Pro  
 46 20 25  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 20  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Artificial Sequence  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: Synthesizable activating sequence, shown in Fig. 1  
 57 <400> SEQUENCE: 3  
 58 ggtgcatcga tgcagggggg  
 61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 10  
 63 <212> TYPE: PRT  
 64 <213> ORGANISM: Leishmani major  
 66 <400> SEQUENCE: 4  
 68 Glu Ala Glu Glu Ala Ala Arg Leu Gln Ala  
 69 1 5 10

Does Not Comply  
 Corrected Diskette Needed:

(pg.1)

Please explain  
 Source of genetic material.

Invalid  
 Response

PLEASE see  
 item #  
 11 on  
 error  
 Summary  
 Sheet.

## RAW SEQUENCE LISTING

DATE: 07/07/2005

PATENT APPLICATION: US/10/502,085A

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Input Set : A:\sequence listing.txt

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72 <210> SEQ ID NO: 5
73 <211> LENGTH: 25
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: MUC1 repeat consensus sequence
80 <400> SEQUENCE: 5
82 Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala Gln Thr Ala His Gly Val .
83 1          5          10          15
86 Thr Ser Ala Pro Asp Glu Thr Ser Arg
87          20          25
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 12
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: MUC1 fragment
98 <400> SEQUENCE: 6
100 Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr
101 1          5          10
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 9
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: MUC1 fragment
112 <400> SEQUENCE: 7
114 Thr Leu Ala Pro Ala Thr Glu Pro Ala
115 1          5
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 9
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: MUC1 fragment
126 <400> SEQUENCE: 8
128 Ala Leu Gly Ser Thr Ala Pro Pro Val
129 1          5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 9
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: MUC1 fragment
140 <400> SEQUENCE: 9
142 Phe Leu Ser Phe His Ile Ser Asn Leu
143 1          5
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20

```

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/502,085A

TIME: 13:46:34

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

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148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: MUC1 repeat
154 <400> SEQUENCE: 10
156 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
157 1          5          10          15
160 Pro Pro Ala His
161          20
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 28
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Synthesized peptide shown in Fig. 17 as intermediate
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (27)..(27)
176 <223> OTHER INFORMATION: Lys is modified by a palmitoyl group
178 <400> SEQUENCE: 11
180 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Pro Asp Thr
181 1          5          10          15
184 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Lys Gly
185          20          25
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 12
190 <212> TYPE: PRT
191 <213> ORGANISM: Plasmodium falciparum
193 <400> SEQUENCE: 12
195 Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro
196 1          5          10

```

VERIFICATION SUMMARY

DATE: 07/07/2005

PATENT APPLICATION: US/10/502,085A

TIME: 13:46:35

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\07072005\J502085A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date